

B2 8. [Amended] The polynucleotide of claim [1] 3, further comprising a sequence encoding a heterologous target protein. E

SUB 3
C2 B 12. [Amended] The polynucleotide of claim 2, wherein the yeast [protein] is [from] a *Saccharomyces cerevisiae*, *Schizosaccharomyces pombe*, *Yarrowia lipolytica*, *Pichia pastoris*, *Hansenula polymorpha*, or *Kluyveromyces lactis*.

SUB 3
C3 B4 14. [Amended] [The expression vector of claim 13] A polynucleotide expression vector comprising a polynucleotide encoding a functional Vff2p, [where in] wherein the Vff2p comprises SEQ ID NO:2, or a variant thereof, and wherein the Vff2p is a yeast protein involved in the secretory pathway and/or involved in the required cellular machinery for membrane fusion.

15. [Amended] The expression vector of claim [13] 14, comprising SEQ ID NO:1, or a variant thereof.

16. [Amended] The expression vector of claim [13] 14, wherein the protein is about 32 kD.

17. [Amended] The expression vector of claim [13] 14, further comprising a promoter sequence operatively linked to the sequence encoding the Vff2p.

B5 19. [Amended] The expression vector of claim [13] 14, further comprising a sequence encoding a heterologous target protein.

B6 23. [Amended] The expression vector of claim 22, wherein the [protein] yeast is [from] *Saccharomyces cerevisiae*, *Schizosaccharomyces pombe*, *Yarrowia lipolytica*, *Pichia pastoris*, *Hansenula polymorpha*, or *Kluyveromyces lactis*.

25. **[Amended]** [The host cell of claim 24] A recombinant host cell comprising a yeast cell genetically altered to express a protein encoded by a polynucleotide sequence encoding a functional Vff2p, [where in] wherein the Vff2p comprises SEQ ID NO:2, or a variant thereof, and wherein the Vff2p is a yeast protein involved in the secretory pathway and/or involved in the required cellular machinery for membrane fusion.
26. **[Amended]** The host cell of claim [24] 25, comprising SEQ ID NO:1, or a variant thereof.
29. **[Amended]** The host cell of claim [28] 25, wherein the yeast cell is a *Saccharomyces cerevisiae*, *Schizosaccharomyces pombe*, *Yarrowia lipolytica*, *Pichia pastoris*, *Hansenula polymorpha*, or *Kluyveromyces lactis* cell.
30. **[Amended]** The host cell of claim [28] 25, wherein the host cell lacks a functional protein involved in the secretory pathway and/or involved in the required cellular machinery for membrane fusion, other than Vff2p.
31. **[Amended]** A method for increasing [protein production in] cell growth of a host cell, comprising introducing Vff2p [to] into the cell and culturing the cell, wherein the Vff2p has at least 40% homology to SEQ ID NO:2.
32. **[Amended]** The method for increasing [protein production in] cell growth of a cell according to claim 31, wherein [a polynucleotide encoding Vff2p is introduced into the host cell and thereafter, culturing] the host cell is cultured under conditions effective to allow expression of the encoded Vff2p.
33. **[Amended]** A method for increasing protein secretion from a host cell, comprising introducing Vff2p [to] into the cell and culturing the cell, wherein the Vff2p has at least 40% homology to SEQ ID NO:2.

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

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34. [Amended] The method for increasing protein secretion from a cell according to claim 33, wherein [a polynucleotide encoding Vff2p is introduced into the host cell and thereafter, culturing] the host cell is cultured under conditions effective to allow expression of the encoded Vff2p.

36. [Amended] An isolated functional vesicular fusion factor 2 protein [The protein of claim 35 having an amino acid sequence] comprising SEQ ID NO:2, or a variant thereof, and wherein the Vff2p is a yeast protein involved in the secretory pathway and/or involved in the required cellular machinery for membrane fusion.

37. [Amended] A method of selecting for a yeast secretory mutant cell containing a polynucleotide sequence encoding a Vff2p[, or a structural homolog of Vff2p,] operably linked to a promoter, wherein the Vff2p comprises SEQ ID NO:2, or a variant thereof, the method comprising growing the secretory mutant cell at a restrictive temperature of about 32-37°C, wherein the restrictive temperature selectively favors mutant cell growth.

Please add the following new claims:

43. [New] The polynucleotide of claim 3, wherein the Vff2p comprises SEQ ID NO:2.

44. [New] The protein of claim 25, wherein the yeast is *S. cerevisiae*.

45. [New] The protein of claim 36, wherein the protein is from *S. cerevisiae*.

46. [New] The method of claim 37, wherein the yeast cell is a *Saccharomyces cerevisiae*, *Schizosaccharomyces pombe*, *Yarrowia lipolytica*, *Pichia pastoris*, *Hansenula polymorpha*, or *Kluyveromyces lactis* cell.